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	Application No.	Applicant(s)
Alada a CAllana I Wa	10/811,706	FREDERICK DU TOIT ET AL.
Notice of Allowability	Examiner	Art Unit
	Shih-Chao Chen	2821
The MAILING DATE of this communication appearance of the communication appearance of the serious part of the Communication appearance of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS
1. $\boxtimes$ This communication is responsive to <u>the application filed o</u>	n March 29, 2004.	
2. The allowed claim(s) is/are <u>1-28</u> .		
<ol> <li>Acknowledgment is made of a claim for foreign priority ur         <ul> <li>All b)</li></ul></li></ol>	e been received. be been received in Application No. cuments have been received in this of this communication to file a repl IENT of this application.	s national stage application from the
INFORMAL PATENT APPLICATION (PTO-152) which give		
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") must</li> <li>(a) including changes required by the Notice of Draftspers</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1)</li> </ol>	son's Patent Drawing Review (PTC . s Amendment / Comment or in the	Office action of
each sheet. Replacement sheet(s) should be labeled as such in t		
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIO	must be submitted. Note the CAL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summar Paper No./Mail D	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 3/29/04</li> </ol>		
Paper No./Mail Date <u>3/29/04</u> Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Staten	nent of Reasons for Allowance
5. <b>5.00 5.00</b>	9.	Shih Theo Chen SMIH CHAO CHEN
		Primary examiner

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#### **DETAILED ACTION**

# Drawings

1. New formal drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

### **EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with James S. Finn (Reg. No. 38,450) on September 26, 2005.

The application has been amended as follows:

In claim 5, line 1, "The apparatus of claim 3" is changed to --The apparatus of claim 4--.

In claim 7, line 1, "The apparatus of claim 1" is changed to --The apparatus of claim 6--.

In claim 11, line 1, "The apparatus of claim 8" is changed to --The apparatus of claim 10--.

In claim 11, lines 1-2, "said slotline gaps" is changed to --said slot gaps--.

In claim 16, line 1, "The method of claim 14" is changed to --The method of claim 15--.

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In claim 18, line 1, "The method of claim 12" is changed to --The method of claim 17--.

In claim 26, line 1, "The article of claim 22" is changed to --The article of claim 25--.

### Allowable Subject Matter

- 3. Claims 1-28 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claims 1-28 is the inclusion of the limitations of a beam former including primary waveguide and plurality of phase shifters; and at least one secondary waveguide each which is connected to one of the phase shifters and to at least one antenna element. It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

Lee et al. (U.S. Patent No. 6,781,554) teaches an electronically scanned array (ESA) includes two interleaved arrays of radiator sticks. Each stick is a periodically loaded edge slot waveguide element, one end of the waveguide element is terminated in a load, the other end of the waveguide element is coupled to row beamforming networks through a phase shifter. However, Lee et al. does not disclosed or suggest at least one secondary waveguide each which is connected to one of the phase shifters and to at least one antenna element.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

# Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shih-Chao Chen whose telephone number is (571) 272-1819. The examiner can normally be reached on Monday-Friday from 7 AM to 4:30 PM, First Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the 'Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shih-Iluo Chen Shih-Chao Chen Primary Examiner Art Unit 2821

SMH-CHAO CHEN PRIMARY EXAMINER Application/Control Number: 10/811,706

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September 26, 2005

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